CLAIMS:

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- 1. A high-pressure gas-discharge lamp, having at least one gastight fused press-seal between a glasslike material and molybdenum, wherein the molybdenum in the fused press-seal is at least partly exposed to an oxidizing environment and at least that part of the molybdenum that is exposed to the oxidizing environment is covered with a coating, characterized in that the coating comprises at least one oxide from among Fe₂O₃, Ta₂O₅, Nb₂O₅, Al₂O₃, SiO₂, TiO₂, ZrO₂, HfO₂, and/or one nitride from among TiN, ZrN, HfN, AlN, BN, and/or one carbide from among TiC, ZrC, HfC, VC, NbC, TaC, B₄C.
- 2. A high-pressure gas-discharge lamp as claimed in claim 1, characterized in that the coating has a film thickness of from 5 nm to 20μm.
 - 3. A high-pressure gas-discharge lamp as claimed in claim 1, characterized in that the coating is built up from at least two layers.
- 4. A high-pressure gas-discharge lamp as claimed in claim 3, characterized in that the layer of the coating that is applied directly to the molybdenum is composed of a nitride and /or carbide and the following layer is composed of an oxide and/or a plurality of oxides.
- 20 5. A high-pressure gas-discharge lamp as claimed in claim 4, characterized in that the following layer is preferably composed of Al₂O₃.
 - 6. A high-pressure gas-discharge lamp as claimed in claim 3, characterized in that the layer that is applied directly to the molybdenum is preferably composed of AlN or Ta₂O₅.
 - 7. A high-pressure gas-discharge lamp as claimed in claim 1, characterized in that the reduction in the size of the fused press-seal, and particularly in the longitudinal extent

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of that part of the molybdenum that is not exposed to an oxidizing environment, can be obtained as a function of the particular material of which the coating is composed.

- 8. A high-pressure gas-discharge lamp as claimed in at least one of claims 1 to 7
 5 for use for projection purposes.
 - 9. A lighting device and/or projection device comprising at least one highpressure gas-discharge lamp as claimed in at least one of claims 1 to 7.